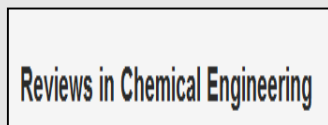


Home Page

The screenshot shows the De Gruyter website interface. At the top left is the De Gruyter logo. The main navigation bar includes 'My Content (1)', 'My Searches (0)', and a search box for 'Search De Gruyter Online'. Below the navigation bar are tabs for 'SUBJECTS' and 'PRODUCT TYPES'. The main content area features a book cover for 'Reviews in Chemical Engineering' on the left. To the right of the cover, the title 'Reviews in Chemical Engineering' is displayed, followed by the Editor-in-Chief (Luss, Dan / Brauner, Neima) and a list of Editorial Board Members. Below this, key metrics are listed: IMPACT FACTOR 2015: 2.163, 5-year IMPACT FACTOR: 2.427, SCImago Journal Rank (SJR) 2015: 0.668, Source Normalized Impact per Paper (SNIP) 2015: 1.046, and Impact per Publication (IPP) 2015: 2.161. On the right side of the product page, there is a price tag showing '99,00 € / \$149.00 / £75.00*' and an 'ADD TO CART' button. Below the price, there are options for 'See all formats and pricing', 'Print Flyer', 'Get eTOC Alert', and 'Get New Article Alerts'. At the bottom of the page, there is a search bar and a 'Select Volume and Issue' dropdown menu.

Logo



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Subject

Chemical Engineering – Reviews - Periodicals

Accessibility

On subscription basis

Language

English

Publisher

Walter de Gruyter GmbH

Brief History

Reviews in Chemical Engineering was previously published by Freund Publishing House Ltd.

Other publications in the field

- Corrosion Reviews
- Green Processing and Synthesis
- International Journal of Chemical Reactor Engineering
- International Journal of Food Engineering
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Scope and Coverage

Reviews in Chemical Engineering publishes authoritative review articles on all aspects of the broad field of chemical engineering and applied chemistry. Its aim is to develop new insights and understanding and to promote interest and research activity in chemical engineering, as well as the application of new developments in these areas. The bimonthly journal publishes peer-reviewed articles by leading chemical engineers, applied scientists and mathematicians.

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Drop coalescence in technical liquid/liquid applications: a review on experimental techniques and modeling approaches

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Publication History

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Abstract

The coalescence phenomenon of drops in liquid/liquid systems is reviewed with particular focus on its technical relevance and application. Due to the complexity of coalescence, a comprehensive survey of the coalescence process and the numerous influencing factors is given. Subsequently, available experimental techniques with different levels of detail are summarized and compared. These techniques can be divided in simple settling tests for qualitative coalescence behavior investigations and gravity settler design, single-drop coalescence studies at flat interfaces as well as between droplets, and detailed film drainage analysis. To model the coalescence rate in liquid/liquid systems on a technical scale, the generic population balance framework is introduced. Additionally, different coalescence modeling approaches are reviewed with ascending

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Issue 3 (Jun 2015)	pp. 193-302
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Remarks

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